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1 Inter-organization networks: implications of access control: requirements for interconnection protocol
D Estrin
August 1986 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM conference on Communications architectures & protocols SIGCOMM '86**, Volume 16 Issue 3
Publisher: ACM Press
Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, index terms

When two or more distinct organizations interconnect their internal computer networks they form an Inter-Organization Network(ION). IONs support the exchange of cad/cam data between manufacturers and subcontractors, software distribution from vendors to users, customer input to suppliers' order-entry systems, and the shared use of expensive computational resources by research laboratories, as examples. This paper analyzes the technical implications of interconnecting networ ...

2 Performance evaluation of a MAC protocol for wireless ATM networks supporting the ATM service categories
B. Van Houdt, C. Blondia, O. Casals, J. Garcia, D. Vazquez
August 1999 **Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia**
Publisher: ACM Press
Full text available: pdf(983.12 KB) Additional Information: full citation, references, index terms

3 Flexible control of downloaded executable content
Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam
May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(297.79 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We present a security architecture that enables system and application a ccess control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

Keywords: access control models, authentication, autorization machanisms, collaborative systems, role-based access control

4 PICS: Internet access controls without censorship
Paul Resnick, James Miller
October 1996 **Communications of the ACM**, Volume 39 Issue 10
Publisher: ACM Press
Full text available: pdf(291.57 KB) Additional Information: full citation, references, citings, index terms

5 Access control and signatures via quorum secret sharing
Moni Naor, Avishai Wool
January 1996

Proceedings of the 3rd ACM conference on Computer and communications security

Publisher: ACM Press
Full text available: pdf(1.55 MB) Additional Information: full citation, references, citings, index terms

6 Interpreted collaboration protocols and their use in groupware prototyping
Richard Furuta, P. David Stotts
October 1994 **Proceedings of the 1994 ACM conference on Computer supported cooperative work**
Publisher: ACM Press
Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings, index terms

The correct and timely creation of systems for coordination of group work depends on the ability to express, analyze, and experiment with protocols for managing multiple work threads. We present an evolution of the Trellis model that provides a formal basis for prototyping the coordination structure of a collaboration system. In Trellis, group interaction protocols are represented separately from the interface processes that use them for coordination. Protocols are interpreted (rather than ...

Keywords: Trellis, colored Petri net, coordination structure, dynamic protocol, formal methods, moderated meeting, process-based hypertext/hypermedia

7 An optimized contention protocol for broadband networks
W. Worth Kirkman
August 1987 **ACM Transactions on Computer Systems (TOCS)**, Volume 5 Issue 3
Publisher: ACM Press
Full text available: pdf(578.28 KB) Additional Information: full citation, abstract, references, index terms, review

This paper describes the concepts underlying an alternative link-level protocol for broadband local networks. The protocol uses implicit slotting of the contention channel to support larger networks, improve performance, and provide reliable distributed collision recognition without reinforcement. It is designed such that compatible interfaces to existing CSMA/CD-based systems can be provided.

8 A distributed system security architecture: applying the transport layer security protocol
Mohammad Mirhakkak
October 1993 **ACM SIGCOMM Computer Communication Review**, Volume 23 Issue 5
Publisher: ACM Press
Full text available: pdf(692.06 KB) Additional Information: full citation, abstract, index terms

A great deal of attention has been given to the development of Open Systems Interconnection (OSI) security protocols in recent years. However, limited work has been dedicated to using these protocols to develop security architectures for securing distributed systems consisting of trusted computer systems communicating via untrusted networks. This paper presents an overview of the Transport Layer Security Protocol (TLSP) and discusses its application to the development of a security architecture ...

9 Access control for large collections
H. M. Gladney
April 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 2
Publisher: ACM Press
Full text available: pdf(482.88 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Efforts to place vast information resources at the fingertips of each individual in large user populations must be balanced by commensurate attention to information protection. For distributed systems with less-structured tasks, more-diversified information, and a heterogeneous user set, the computing system must administer enterprise-chosen access control policies. One kind of resource is a digital library that emulates massive collections of paper and other physical media for clerical, en ...

Keywords: access control, digital library, document, electronic library, information security

10 Local networks
William Stallings
March 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 1
Publisher: ACM Press
Full text available: pdf(3.01 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The rapidly evolving field of local network technology has produced a steady stream of local network products in recent years. The IEEE 802 standards that are now taking shape, because of their complexity, do little to narrow the range of alternative technical approaches and at the same time encourage more vendors into the field. The purpose of this paper is to present a systematic, organized overview of the alternative architectures for and design approaches to local networks.

...

11 An overview of PCTE and PCTE+

Gerard Boudier, Ferdinando Gallo, Regis Minot, Ian Thomas

November 1988 **ACM SIGSOFT Software Engineering Notes , ACM SIGPLAN Notices , Proceedings of the third ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments SDE 3**, Volume 13 , 24 Issue 5 , 2

Publisher: ACM Press

Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, citings, index terms

The PCTE project has defined a Public Tool Interface on which Software Engineering Environments can be constructed. The interface definition was put into the public domain in September 1986 and several implementations on several machines now exist. The PCTE+ project was set up to define a Public Tool Interface, based on the PCTE work, that could also serve for the development of defense and other high-security applications. This paper summarises the current status of PCTE activity, presents ...

12 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(524.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

13 Design and performance of the Shasta distributed shared memory protocol

Daniel J. Scales, Kourosh Gharachorloo

July 1997 **Proceedings of the 11th international conference on Supercomputing**

Publisher: ACM Press

Full text available: pdf(1.40 MB) Additional Information: full citation, references, citings, index terms

14 Programming languages for mobile code

Tommy Thorn

September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(393.65 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Sun's announcement of the programming language Java more that anything popularized the notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several classes of mobile code and extract their common characteristics, where security proves to be one of the major concerns. With these characteristics as reference points, we examine six representative languages proposed for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile code, network programming, object orientation, portability, safety, security, telescript

15 The DGSA: unmet information security challenges for operating system designers

Edward A. Feustel, Terry Mayfield

January 1998 **ACM SIGOPS Operating Systems Review**, Volume 32 Issue 1

Publisher: ACM Press

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, citings, index terms

The Department of Defense (DoD) Goal Security Architecture (DGSA) introduces a broader view of information security from that previously held by the Department, one which has much more in common with the requirements of an inter-networked commercial view of information security. The purpose of this paper is to introduce designers of operating systems to the most important aspects of the DGSA conceptual framework in order to open discussions on both the suitability of the framework and the feasib ...

16 Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1
Publisher: ACM Press
Full text available: pdf(5.28 MB) Additional Information: full citation

17 Technologies for repository interoperation and access control
Shirley Browne, Jack Dongarra, Jeff Horner, Paul McMahan, Scott Wells
May 1998 **Proceedings of the third ACM conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

18 The Lattice Security Model In A Public Computing Network
Paul A. Karger
December 1978 **Proceedings of the 1978 annual conference**
Publisher: ACM Press
Full text available: pdf(693.79 KB) Additional Information: full citation, abstract, references, index terms

This paper defines the lattice security model and shows it to be useful in private sector applications of decentralized computer networks. It examines discretionary security models and shows them to be inadequate to protect against "Trojan Horse" attacks. It examines the management of large security lattices and proposes solutions to the proliferation of categories problem.

Keywords: Computer network security, Computer security, Data processing security, Lattice security model, Non-discretionary security

19 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems
Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker
December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: pdf(7.24 MB) Additional Information: full citation, citings

20 Grapevine: an exercise in distributed computing
Andrew D. Birrell, Roy Levin, Michael D. Schroeder, Roger M. Needham
April 1982 **Communications of the ACM**, Volume 25 Issue 4
Publisher: ACM Press
Full text available: pdf(1.71 MB) Additional Information: full citation, abstract, references, citings, index terms

Grapevine is a multicomputer system on the Xerox research internet. It provides facilities for the delivery of digital messages such as computer mail; for naming people, machines, and services; for authenticating people and machines; and for locating services on the internet. This paper has two goals: to describe the system itself and to serve as a case study of a real application of distributed computing. Part I describes the set of services provided by Grapevine and how its data and funct ...

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21 Status of standards
A. Lyman Chapin
April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(1.79 MB) Additional Information: full citation, index terms

22 Security issues in ATM networks
Danai Patiyoot, S. J. Shepard
October 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4
Publisher: ACM Press
Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, index terms

This paper presents a survey of existing solutions aiming to secure communications over ATM network. Details are given about: the security services offered, their placement within ATM protocol reference model, the mechanism to negotiate security services, techniques to provides synchronisation and key exchange protocol. Additionally, this paper proposes a new ATM security solution.

Keywords: ATM, security

23 The transport layer: tutorial and survey
Sami Iren, Paul D. Amer, Phillip T. Conrad
December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4
Publisher: ACM Press
Full text available: pdf(261.78 KB) Additional Information: full citation, abstract, references, citings, index terms

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables.< ...

Keywords: TCP/IP networks, congestion control, flow control, transport protocol, transport service

24 Towards transparent and efficient software distributed shared memory
Daniel J. Scales, Kourosh Gharachorloo
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5
Publisher: ACM Press
Full text available: pdf(2.34 MB) Additional Information: full citation, references, citings, index terms

25 Informing memory operations: memory performance feedback mechanisms and their applications
Mark Horowitz, Margaret Martonosi, Todd C. Mowry, Michael D. Smith
May 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 2

Publisher: ACM Press
Full text available: pdf(344.74 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Memory latency is an important bottleneck in system performance that cannot be adequately solved by hardware alone. Several promising software techniques have been shown to address this problem successfully in specific situations. However, the generality of these software approaches has been limited because current architecturtes do not provide a fine-grained, low-overhead mechanism for observing and reacting to memory behavior directly. To fill this need, this article proposes a new class ...

Keywords: cache miss notification, memory latency, processor architecture

26 DAIDA: an environment for evolving information systems

M. Jarke, J. Mylopoulos, J. W. Schmidt, Y. Vassiliou
January 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 1
Publisher: ACM Press
Full text available: pdf(3.63 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We present a framework for the development of information systems based on the premise that the knowledge that influences the development process needs to somehow be captured, represented, and managed if the development process is to be rationalized. Experiences with a prototype environment developed in ESPRIT project DAIDA demonstrate the approach. The project has implemented an environment based on state-of-the-art languages for requirements modeling, design and implementation of informat ...

Keywords: knowledge engineering, mapping assistant, multi-level specification, repository, software information system, software process model

27 User-centered security

Mary Ellen Zurko, Richard T. Simon
September 1996 **Proceedings of the 1996 workshop on New security paradigms**
Publisher: ACM Press
Full text available: pdf(881.81 KB) Additional Information: full citation, references, citings, index terms

Keywords: authorization, security, user-centered

28 A large-scale hypermedia application using document management and Web technologies

V. Balasubramanian, Alf Bashian, Daniel Porcher
April 1997 **Proceedings of the eighth ACM conference on Hypertext**
Publisher: ACM Press
Full text available: pdf(1.13 MB) Additional Information: full citation, references, citings, index terms

Keywords: WWW, distributed authoring, document management, information retrival, publishing, systematic hypermedia design, templates, views, workflow

29 A distributed trust model

Alfarez Abdul-Rahman, Stephen Hailes
January 1998 **Proceedings of the 1997 workshop on New security paradigms**
Publisher: ACM Press
Full text available: pdf(1.07 MB) Additional Information: full citation, references, citings, index terms

30 A taxonomy of computer program security flaws

Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi
September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(3.81 MB) Additional Information: full citation, abstract, references, citings, index terms, review

An organized record of actual flaws can be useful to computer system designers, programmers, analysts, administrators, and users. This survey provides a taxonomy for computer program security flaws, with an Appendix that documents 50 actual security flaws. These flaws have all been described previously in the open literature, but in widely separated places. For those new to the field of computer security, they provide a good introduction to the characteristics of security flaws and how they ...

Keywords: error/defect classification, security flaw, taxonomy

31 Presto: an experimental architecture for fluid interactive document spaces



Paul Dourish, W. Keith Edwards, Anthony LaMarca, Michael Salisbury

June 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(409.04 KB) Additional Information: full citation, abstract, references, citings, index terms

Traditional document systems use hierarchical filing structures as the basis for organizing, storing and retrieving documents. However, this structure is very limited in comparison with the rich and varied forms of document interaction and category management in everyday document use. Presto is a prototype document management system providing rich interaction with documents through meaningful, user-level document attributes, such as "Word file," "published paper," &I ...

Keywords: attribute/value systems, direct manipulation, document management

32 Flexible coordination with cooperative hypertext



Weigang Wang, Jörg M. Haake

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**

Publisher: ACM Press

Full text available: pdf(1.69 MB) Additional Information: full citation, references, citings, index terms

33 Semantic file systems



David K. Gifford, Pierre Jouvelot, Mark A. Sheldon, James W. O'Toole

September 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP '91**, Volume 25 Issue 5

Publisher: ACM Press

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references, citings, index terms

A *semantic file system* is an information storage system that provides flexible associative access to the system's contents by automatically extracting attributes from files with file type specific *transducers*. Associative access is provided by a conservative extension to existing tree-structured file system protocols, and by protocols that are designed specifically for content based access. Compatiblity with existing file system protocols is provided by introducing the concept of a ...

34 Secrecy by typing in security protocols



Martín Abadi

September 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 5

Publisher: ACM Press

Full text available: pdf(265.35 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We develop principles and rules for achieving secrecy properties in security protocols. Our approach is based on traditional classification techniques, and extends those techniques to handle concurrent processes that use shared-key cryptography. The rules have the form of typing rules for a basic concurrent language with cryptographic primitives, the spi calculus. They guarantee that, if a protocol typechecks, then it does not leak its secret inputs.

Keywords: cryptographic protocols, process calculi, secrecy properties

35 SaveMe: a system for archiving electronic documents using messaging groupware



Stefan Berchtold, Alexandros Biliris, Euthimios Panagos

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration WACC '99**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, index terms

Today, organizations deal with an ever-increasing number of documents that have to be archived because they are either related to their core business (e.g., product designs) or needed to meet corporate or legal retention requirements (e.g., voucher). In this paper, we present the architecture and prototype implementation of SaveMe, a document archival system that is based on network-centric groupware such as Internet standards-based messaging systems. In SaveMe, the actions of archiving, retriev ...

Keywords: Internet, archiving, groupware, messaging

36

Flexible update propagation for weakly consistent replication
Karin Petersen, Mike J. Spreitzer, Douglas B. Terry, Marvin M. Theimer, Alan J. Demers
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5
Publisher: ACM Press
Full text available: pdf(2.16 MB) Additional Information: full citation, references, citings, index terms

37 Memory organization in multi-channel optical networks: NUMA and COMA revisited
Yan Yang Xiao, John K. Bennett
January 1996 **Proceedings of the 10th international conference on Supercomputing**
Publisher: ACM Press
Full text available: pdf(1.04 MB) Additional Information: full citation, references, index terms

38 Distributed operating systems
Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press
Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

39 Performing remote operations efficiently on a local computer network
Alfred Z. Spector
April 1982 **Communications of the ACM**, Volume 25 Issue 4
Publisher: ACM Press
Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references, citings, index terms

A communication model is described that can serve as a basis for a highly efficient communication subsystem for local networks. The model contains a taxonomy of communication instructions that can be implemented efficiently and can be a good basis for interprocessor communication. These communication instructions, called remote references, cause an operation to be performed by a remote process and, optionally, cause a value to be returned. This paper also presents implementation considerati ...

Keywords: communication models, efficient communication, transactions

40 Architecture of the IBM system/370
Richard P. Case, Andris Padegs
January 1978 **Communications of the ACM**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(2.78 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper discusses the design considerations for the architectural extensions that distinguish System/370 from System/360. It comments on some experiences with the original objectives for System/360 and on the efforts to achieve them, and it describes the reasons and objectives for extending the architecture. It covers virtual storage, program control, data-manipulation instructions, timing facilities, multiprocessing, debugging and monitoring, error handling, and input/output operations. ...

Keywords: architecture, computer systems, error handling, instruction sets, virtual storage

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Relevance scale

41 A security architecture for fault-tolerant systems
Michael K. Reiter, Kenneth P. Birman, Robbert van Renesse
November 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 4
Publisher: ACM Press
Full text available: pdf(2.50 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Process groups are a common abstraction for fault-tolerant computing in distributed systems. We present a security architecture that extends the process group into a security abstraction. Integral parts of this architecture are services that securely and fault tolerantly support cryptographic key distribution. Using replication only when necessary, and introducing novel replication techniques when it was necessary, we have constructed these services both to be easily defensible against atta ...

Keywords: key distribution, multicast, process groups

42 Session IV - hypertext systems: Intermedia: issues, strategies, and tactics in the design of a hypermedia document system
L. Nancy Garrett, Karen E. Smith, Norman Meyrowitz
December 1986 **Proceedings of the 1986 ACM conference on Computer-supported cooperative work**
Publisher: ACM Press
Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings

A hypermedia system provides a tool for cooperative work by allowing writers and designers to share a network of linked documents where they can create documents, link their own and others' documents together, and leave notes for one another. This paper discusses issues that designers need to address in the development of hypermedia systems. Major issues involve what kind of linking, contexts, and visual modeling the system provides. The composite of the answers to these issues determines the na ...

43 Building real-time groupware with GroupKit, a groupware toolkit
Mark Roseman, Saul Greenberg
March 1996 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 3 Issue 1
Publisher: ACM Press
Full text available: pdf(2.74 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents an overview of GroupKit, a groupware toolkit that lets developers build applications for synchronous and distributed computer-based conferencing. GroupKit was constructed from our belief that programming groupware should be only slightly harder than building functionally similar single-user systems. We have been able to significantly reduce the implementation complexity of groupware through the key features that comprise GroupKit. A runtime infrastructure
Keywords: GroupKit, computer-supported cooperative work, groupware toolkits, synchronous groupware, user interface toolkits

44 Making sense of software engineering environment framework standards
Barbara Cuthill
December 1994 **StandardView**, Volume 2 Issue 4
Publisher: ACM Press
Full text available: pdf(1.67 MB) Additional Information: full citation, references, index terms

45 Data sharing in group work

Irene Greif, Sunil Sarin

April 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(2.14 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Data sharing is fundamental to computer-supported cooperative work: People share information through explicit communication channels and through their coordinated use of shared databases. This paper examines the data management requirements of group work applications on the basis of experience with three prototype systems and on observations from the literature. Database and object management technologies that support these requirements are briefly surveyed, and unresolved issues in the par ...

46 Bibliography of recent publication in computer networking

July 1989 **ACM SIGCOMM Computer Communication Review**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(2.53 MB) Additional Information: full citation, index terms

47 Security issues with TCP/IP

Renqi Li, E. A. Unger

June 1995 **ACM SIGAPP Applied Computing Review**, Volume 3 Issue 1

Publisher: ACM Press

Full text available: pdf(801.12 KB) Additional Information: full citation, abstract, index terms

An introduction to network security , basic definitions and aa brief discussion of the architecture of TCP/IP as well as the Open System Intercornnection(OSI) Reference Model open the paper. The relationship between TCP/IP and of some OSI layers is described. An indepth look is provided to the major protocols in TCP/IP suite and the security features and problems in this suite of protocols. The secutiy problems are discussed in the context ofthe protocol services.

Keywords: TCP/IP, Unix, network security, security

48 A logic for reasoning about security

Janice Glasgow, Glenn Macewen, Prakash Panangaden

August 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 3

Publisher: ACM Press

Full text available: pdf(2.75 MB) Additional Information: full citation, abstract, references, citings, index terms

A formal framework called Security Logic (SL) is developed for specifying and reasoning about security policies and for verifying that system designs adhere to such policies. Included in this modal logic framework are definitions of knowledge, permission, and obligation. Permission is used to specify secrecy policies and obligation to specify integrity policies. The combination of policies is addressed and examples based on ...

Keywords: composition knowledge, integrity, logic, obligation, permission, policy, possible-worlds, secrecy, security, time

49 Personal distributed computing: the Alto and Ethernet software

Butler Lampson

January 1986 **Proceedings of the ACM Conference on The history of personal workstations**

Publisher: ACM Press

Full text available: pdf(3.00 MB) Additional Information: full citation, abstract, references, citings, index terms

The personal distributed computing system based on the Alto and the Ethernet was a major effort to make computers help people to think and communicate. The paper describes the complex and diverse collection of software that was built to pursue this goal, ranging from operating systems, programming environments, and communications software to printing and file servers, user interfaces, and applications such as editors, illustrators, and mail systems.

50 UIO: a uniform I/O system interface for distributed systems

David R. Cheriton

January 1987 **ACM Transactions on Computer Systems (TOCS)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: pdf(3.20 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A uniform I/O interface allows programs to be written relatively independently of specific I/O services and yet work with a wide variety of the I/O services available in a distributed environment. Ideally, the interface provides this uniform access without excessive complexity in the interface or

loss of performance. However, a uniform interface does not arise from careful design of individual system interfaces alone; it requires explicit definition. In this paper, the UIO (unifo ...

51 Middleware: a model for distributed system services

Philip A. Bernstein

February 1996 **Communications of the ACM**, Volume 39 Issue 2

Publisher: ACM Press

Full text available: pdf(238.25 KB) Additional Information: full citation, references, citings, index terms

52 Distributed systems - programming and management: On remote procedure call

Patrícia Gomes Soares

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**

Publisher: IBM Press

Full text available: pdf(4.52 MB) Additional Information: full citation, abstract, references, citings

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

53 A federated architecture for information management

Dennis Heimbigner, Dennis McLeod

July 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 3

Publisher: ACM Press

Full text available: pdf(2.19 MB) Additional Information: full citation, abstract, references, citings, index terms

An approach to the coordinated sharing and interchange of computerized information is described emphasizing partial, controlled sharing among autonomous databases. Office information systems provide a particularly appropriate context for this type of information sharing and exchange. A federated database architecture is described in which a collection of independent database systems are united into a loosely coupled federation in order to share and exchange information. A federation consist ...

54 Hypervisor-based fault tolerance

Thomas C. Bressoud, Fred B. Schneider

February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available: pdf(1.89 MB) Additional Information: full citation, abstract, references, citings, index terms

Protocols to implement a fault-tolerant computing system are described. These protocols augment the hypervisor of a virtual-machine manager and coordinate a primary virtual machine with its backup. No modifications to the hardware, operating system, or application programs are required. A prototype system was constructed for HP's PA-RISC instruction-set architecture. Even though the prototype was not carefully tuned, it ran programs about a factor of 2 slower than a bare machine would.

Keywords: fault-tolerant computing system, primary/backup approach, virtual-machine manager

55 Efficient communication strategies for ad-hoc wireless networks (extended abstract)

Micah Adler, Christian Scheideler

June 1998 **Proceedings of the tenth annual ACM symposium on Parallel algorithms and architectures**

Publisher: ACM Press

Full text available: pdf(1.56 MB) Additional Information: full citation, references, citings, index terms

56 Belief reasoning in MLS deductive databases

Hasan M. Jamil

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references, citings, index terms

It is envisaged that the application of the multilevel security (MLS) scheme will enhance flexibility and effectiveness of authorization policies in shared enterprise databases and will replace cumbersome authorization enforcement practices through complicated view definitions on a per user basis. However, as advances in this area are being made and ideas crystallized, the concomitant weaknesses of the MLS databases are also surfacing. We insist that the critical problem with the

current mo ...

Keywords: MLS database, beleif assertion, deductive databases, inheritance and overriding, reasoning

57 Whiteboards: a graphical database tool

James Donahue, Jennifer Widom

January 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The "Whiteboards" system is intended to be an electronic equivalent of the whiteboards and corkboards that we have in our offices. A Whiteboard database has similar qualities of storing disparate collections of data and saving their spatial location in a window to help with organization. A Whiteboard database can contain references to arbitrary entities: text files, notes, programs, tools, pictures, etc. Whiteboards runs as an application in the Cedar programming environment dev ...

58 Network locality at the scale of processes

Jeffrey C. Mogul

May 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 2

Publisher: ACM Press

Full text available: pdf(1.80 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Packets on a LAN can be viewed as a series of references to and from the objects they address. The amount of locality in this reference stream may be critical to the efficiency of network implementations, if the locality can be exploited through caching or scheduling mechanisms. Most previous studies have treated network locality with an addressing granularity of networks or individual hosts. This paper describes some experiments tracing locality at a finer grain, looking at references to i ...

Keywords: context switching, dallying, locality of reference, remote procedure calls

59 Topological design of local-area networks using genetic algorithms

Reuven Elbaum, Moshe Sidi

October 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 5

Publisher: IEEE Press

Full text available: pdf(1.32 MB) Additional Information: full citation, references, citings, index terms

60 Estimating the multiplicities of conflicts to speed their resolution in multiple access channels

Albert G. Greenberg, Philippe Flajolet, Richard E. Ladner

April 1987 **Journal of the ACM (JACM)**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(2.40 MB) Additional Information: full citation, abstract, references, citings, index terms, review

New, improved algorithms are proposed for regulating access to a multiple-access channel, a common channel shared by many geographically distributed computing stations. A conflict of multiplicity n occurs when n stations transmit simultaneously to the channel. As a result, all stations receive feedback indicating whether n is 0, 1, or $\geqslant 2$. If n = 1, the transmission succeeds; whereas if $n \geqslant 2$, all the ...

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Relevance scale

61 OMP: a RISC-based multiprocessor using orthogonal-access memories and multiple spanning buses

K. Hwang, M. Dubois, D. K. Panda, S. Rao, S. Shang, A. Uresin, W. Mao, H. Nair, M. Lytwyn, F. Hsieh, J. Liu, S. Mehrotra, C. M. Cheng

June 1990 **ACM SIGARCH Computer Architecture News , Proceedings of the 4th international conference on Supercomputing ICS '90**, Volume 18 Issue 3b

Publisher: ACM Press

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents the architectural design and RISC based implementation of a prototype supercomputer, namely the Orthogonal MultiProcessor (OMP). The OMP system is constructed with 16 Intel 1860 RISC microprocessors and 256 parallel memory modules, which are 2-D interleaved and orthogonally accessed using custom-designed spanning buses. The architectural design has been validated by a CSIM-based multiprocessor simulator. The design choices are based on worst-case delay a ...

62 The clearinghouse: a decentralized agent for locating named objects in a distributed environment

Derek C. Oppen, Yogen K. Dalal

July 1983 **ACM Transactions on Information Systems (TOIS)**, Volume 1 Issue 3

Publisher: ACM Press

Full text available: pdf(1.73 MB) Additional Information: full citation, references, citings, index terms

63 Selective and locally controlled transport of privileges

Naftaly H. Minsky

October 1984 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: pdf(1.89 MB) Additional Information: full citation, references, citings, index terms

64 The Multics kernel design project

Michael D. Schroeder, David D. Clark, Jerome H. Saltzer

November 1977 **Proceedings of the sixth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, citings, index terms

We describe a plan to create an auditable version of Multics. The engineering experiments of that plan are now complete. Type extension as a design discipline has been demonstrated feasible, even for the internal workings of an operating system, where many subtle intermodule dependencies were discovered and controlled. Insight was gained into several tradeoffs between kernel complexity and user semantics. The performance and size effects of this work are encouraging. We conclude that verifi ...

Keywords: Multics, Operating systems, Protection, Security, Security kernel, Supervisors, Type extension, Verifiable systems

65 File-system development with stackable layers

John S. Heidemann, Gerald J. Popek
February 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 1
Publisher: ACM Press
Full text available: pdf(2.16 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Filing services have experienced a number of innovations in recent years, but many of these promising ideas have failed to enter into broad use. One reason is that current filing environments present several barriers to new development. For example, file systems today typically stand alone instead of building on the work of others, and support of new filing services often requires changes that invalidate existing work. Stackable file-system design addresses these issues in severa ...

Keywords: composability, file system design, operating system structure, reuse

66 Workshop on compositional software architectures: workshop report
May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3
Publisher: ACM Press
Full text available: pdf(2.91 MB) Additional Information: full citation, index terms

67 Distributed environment: Name space models for locating services
Nigel Hinds, C. V. Ravishankar
October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, citings

Much of recent work on computer systems has focused on providing transparent resource-sharing in a distributed computing environment. Many of these systems use the server-client model to provide access to data and services. As more distributed services are offered and the demand for sharing increases in these environments, efficient management and accessing schemes become crucial. Locating *services makes name service* a critical part of access management.This report describes some of the w ...

68 Integrating communication, cooperation, and awareness: the DIVA virtual office environment
Markus Sohlenkamp, Greg Chwelos
October 1994 **Proceedings of the 1994 ACM conference on Computer supported cooperative work**
Publisher: ACM Press
Full text available: pdf(1.60 MB) Additional Information: full citation, abstract, references, citings, index terms

DIVA, a novel environment for group work, is presented. This prototype virtual office environment provides support for communication, cooperation, and awareness in both the synchronous and asynchronous modes, smoothly integrated into a simple and intuitive interface which may be viewed as a replacement for the standard graphical user interface desktop. In order to utilize the skills that people have acquired through years of shared work in real offices, DIVA is modeled after the standard of ...

Keywords: CSCW, awareness, groupware, integration, synchronous/asynchronous, virtual office

69 Object management in distributed information systems
Peter Lyngbaek, Dennis McLeod
May 1984 **ACM Transactions on Information Systems (TOIS)**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(1.91 MB) Additional Information: full citation, references, citings, index terms

70 Migratory applications
Krishna A. Bharat, Luca Cardelli
December 1995 **Proceedings of the 8th annual ACM symposium on User interface and software technology**
Publisher: ACM Press
Full text available: pdf(1.19 MB) Additional Information: full citation, references, citings, index terms

Keywords: application checkpointing, application migration, collaborative work, interactive agents, mobile computing, safety, ubiquitous computing

71 Industrial strength hypermedia: requirements for a large engineering enterprise

Kathryn C. Malcolm, Steven E. Poltrock, Douglas Schuler
September 1991 **Proceedings of the third annual ACM conference on Hypertext**
Publisher: ACM Press
Full text available: pdf(971.78 KB) Additional Information: full citation, references, citings, index terms

72 The digital library integrated task environment (DLITE)
Steve B. Cousins, Andreas Paepcke, Terry Winograd, Eric A. Bier, Ken Pier
July 1997 **Proceedings of the second ACM international conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(1.57 MB) Additional Information: full citation, references, citings, index terms

Keywords: digital library, direct-manipulation, holophrasting, user interface, world-wide web

73 Intermedia: The architecture and construction of an object-oriented hypemedia system and applications framework
Norman Meyrowitz
June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPLSA '86**, Volume 21 Issue 11
Publisher: ACM Press
Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references, citings, index terms

This article presents a case study of the development of the Intermedia system, a large, object-oriented hypermedia system and associated applications development framework providing sophisticated document linkages. First it presents the educational and technological objectives underlying the project. Subsequent sections capture the process of developing the Intermedia product and detail its architecture and construction, concentrating on the areas in which object-oriented technology has ha ...

74 The Zebra striped network file system
John H. Hartman, John K. Ousterhout
August 1995 **ACM Transactions on Computer Systems (TOCS)**, Volume 13 Issue 3
Publisher: ACM Press
Full text available: pdf(2.70 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Zebra is a network file system that increases throughput by striping the file data across multiple servers. Rather than striping each file separately, Zebra forms all the new data from each client into a single stream, which it then stripes using an approach similar to a log-structured file system. This provides high performance for writes of small files as well as for reads and writes of large files. Zebra also writes parity information in each stripe in the style of RAID disk arrays; this ...

Keywords: RAID, log-based striping, log-structured file system, parity computation

75 Chiron-1: a software architecture for user interface development, maintenance, and run-time support
Richard N. Taylor, Kari A. Nies, Gregory Alan Bolcer, Craig A. MacFarlane, Kenneth M. Anderson, Gregory F. Johnson
June 1995 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(2.65 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The Chiron-1 user interface system demonstrates key techniques that enable a strict separation of an application from its user interface. These techniques include separating the control-flow aspects of the application and user interface: they are concurrent and may contain many threads. Chiron also separates windowing and look-and-feel issues from dialogue and abstract presentation decisions via mechanisms employing a client-server architecture. To separate application code from user interf ...

Keywords: artists, client-server, concurrency, event-based integration, user interface architectures

76 Lightweight remote procedure call
Brian N. Bershad, Thomas E. Anderson, Edward D. Lazowska, Henry M. Levy
February 1990 **ACM Transactions on Computer Systems (TOCS)**, Volume 8 Issue 1
Publisher: ACM Press
Full text available: pdf(1.60 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Lightweight Remote Procedure Call (LRPC) is a communication facility designed and optimized for communication between protection domains on the same machine. In contemporary small-kernel operating systems, existing RPC systems incur an unnecessarily high cost when used for the type of communication that predominates—between protection domains on the same machine. This cost leads system designers to coalesce weakly related subsystems into the same protection domain, trading safety for ...

77 Experiments with Oval: a radically tailorable tool for cooperative work

Thomas W. Malone, Kum-Yew Lai, Christopher Fry

April 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 2

Publisher: ACM Press

Full text available: pdf(2.54 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article describes a series of tests of the generality of a "radically tailorable" tool for cooperative work. Users of this system can create applications by combining and modifying four kinds of building blocks: objects, views, agents, and links. We found that user-level tailoring of these primitives can provide most of the functionality found in well-known cooperative work systems such as gIBIS, Coordinator, Lotus Notes, and Information Le ...

Keywords: computer-supported cooperative work, end-user programming, groupware, radical tailorability

78 An object-based programming model for shared data

Gail E. Kaiser, Brent Hailpern

April 1992 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available: pdf(3.28 MB) Additional Information: full citation, abstract, references, index terms, review

The classical object model supports private data within objects and clean interfaces between objects, and by definition does not permit sharing of data among arbitrary objects. This is a problem for real-world applications, such as advanced financial services and integrated network management, where the same data logically belong to multiple objects and may be distributed over multiple nodes on the network. Rather than give up the advantages of encapsulated objects in modeling real-world en ...

Keywords: coordination language, daemons, financial applications, object-based, real-time, sharing

79 The UNIX time-sharing system

Dennis M. Ritchie, Ken Thompson

July 1974 **Communications of the ACM**, Volume 17 Issue 7

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings, index terms

UNIX is a general-purpose, multi-user, interactive operating system for the Digital Equipment Corporation PDP-11/40 and 11/45 computers. It offers a number of features seldom found even in larger operating systems, including: (1) a hierarchical file system incorporating demountable volumes; (2) compatible file, device, and inter-process I/O; (3) the ability to initiate asynchronous processes; (4) system command language selectable on a per-user basis; and (5) over 100 subsystems including a ...

Keywords: PDP-11, command language, file system, operating system, time-sharing

80 Performance modeling study of a client/server system architecture

Ji Shen, Shahla Butler

December 1994 **Proceedings of the 26th conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(639.14 KB) Additional Information: full citation, references, citings, index terms

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Relevance scale

81 Vulnerabilities of EFTs to intentionally caused losses
Donn B. Parker
December 1979 **Communications of the ACM**, Volume 22 Issue 12
Publisher: ACM Press
Full text available: pdf(592.04 KB) Additional Information: full citation, references

Keywords: EFTs, computer abuse, crime, errors, legislation, losses, positions of trust, security

82 Remote I/O: fast access to distant storage
Ian Foster, David Kohr, Rakesh Krishnaiyer, Jace Mogill
November 1997 **Proceedings of the fifth workshop on I/O in parallel and distributed systems**
Publisher: ACM Press
Full text available: pdf(1.51 MB) Additional Information: full citation, references, citings, index terms

83 Transaction processing monitors
Philip A. Bernstein
November 1990 **Communications of the ACM**, Volume 33 Issue 11
Publisher: ACM Press
Full text available: pdf(3.06 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A transaction processing (TP) application is a program that performs an administrative function by accessing a shared database on behalf of an on-line user. A TP system is an integrated set of products that supports TP applications. These products include both hardware, such as processors, memories, disks and communications controllers, and software such as operating systems (Oss), database management systems (DBMSs), computer networks and TP monitors. Much of the integration of these prod ...

84 The UNIX time-sharing system
Dennis M. Ritchie, Ken Thompson
January 1983 **Communications of the ACM**, Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(740.92 KB) Additional Information: full citation, abstract, references, citings

UNIX is a general-purpose, multi-user, interactive operating system for the Digital Equipment Corporation PDP-11/40 and 11/45 computers. It offers a number of features seldom found even in a larger operating systems, including: (1) a hierarchical file system incorporating demountable volumes; (2) compatible file, device, and inter-process I/O; (3) the ability to initiate asynchronous processes; (4) system command language selectable on a per-user basis; and (5) over 100 subsystems including ...

Keywords: PDP-11, command language, file system, operating system, time-sharing

85 Overcoming communication obstacles in user-analyst interaction for functional requirements elicitation
S. Valenti, M. Panti, A. Cucchiarelli

January 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 1
Publisher: ACM Press
Full text available: pdf(724.86 KB) Additional Information: full citation, abstract, index terms

The importance of requirement engineering in the software development process has been widely recognised by the scientific community. One of the major error sources that arise in this phase is represented by ineffectual communication between users and analysts.Valusek and Fryback in [32] identify three classes of communication obstacles to a successful elicitation of requirements. Purpose of this paper is to discuss these obstacles and to identify the structure of a CASE tool that may allow to o ...

86 Technical reports
SIGACT News Staff
January 1981 **ACM SIGACT News**, Volume 13 Issue 1
Publisher: ACM Press
Full text available: pdf(1.78 MB) Additional Information: full citation

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